



## **Advancing Asset Management in Your Utility: A “Hands-On” Workshop (Managing Your Facility for Long-Term Sustainability)**



**August 6, 7 & 8, 2007**

Training Location:

**Hilton in the Disney World Resort**

**1751 Hotel Plaza Blvd., Lake Buena Vista FL 32830**

Sponsored by:

**United States Environmental Protection Agency,**

**Florida Department of Environmental Protection & Florida Rural Water Association**

**Registration Deadline: July 27, 2007**

**Register Early – Space is Limited**

***The Challenge:*** America's public water-based infrastructure – its water and wastewater plants/facilities and collection/distribution systems - is critical to its health and economic, environmental and cultural vitality. Over the past half century, America has spent more than a trillion dollars building and operating these systems. But in many communities, this infrastructure is severely stressed from overuse, under-funding of maintenance and renewal, and aging.

***The Focus:*** Public sector managers have been managing assets for decades. However, it is clear that what we have been doing in the past will not be sufficient to address the growing and increasingly complex challenges that lie ahead. Practical, advanced techniques for better managing assets have been developed and refined in both the private sector in the US and in water and wastewater agencies around the world. Management thinking is centered on long-term effectiveness, service sustainability, and effective environmental management. *How can these advanced asset management concepts, tools and techniques be most effectively transferred into the water and wastewater industry, more specifically, into your agency? Where to start? How to proceed? How to select appropriate tools?*

***The Workshops:*** A comprehensive approach to managing our capital assets is overdue – one that brings “state of the practice” advanced asset management (AAM) concepts, tools, techniques, and technologies to bear on managing for cost-effective performance. This approach, first and foremost, is one that focuses on providing **sustained performance to the customer at the lowest life-cycle cost and at an acceptable level of risk to the organization.**

A critical step in confronting the AAM challenge is “knowledge transfer.” **These workshops have been designed as an extensive hands-on experience.** Each workshop:

- ♦ **Incorporates a real-world storyline** - - that demonstrates advanced asset management in approaching difficult asset-driven problems.
- ♦ **Utilizes exercises** -- that demonstrate the application of the concepts, techniques and tools of advanced asset management.
- ♦ **The mentoring of expert practitioners in Asset Management.** The agenda is **Case-based** built around five core questions. **The workshops focus on demonstrating, step-by-step, how an agency would select and deploy “Best Appropriate AAM Practices” that are best suited to that agency.**

## Agenda Highlights

### **DAY ONE August 6 (10:00 am – 5:00 pm)**

**(1 Hour Lunch (12:30 – 1:30))**

#### **Introductions, Storyline, Background and Context**

- Introduction of Storyline
- The Changing Utility Industry
- The Emerging Utility of Tomorrow

#### **Overview of Fundamental Concepts and Core Practices**

- A Definition of AAM
- The AAM Paradigm
- The Nine Building Blocks of AAM
- Managing the Asset Base's "Potential to Fail"
- Payoffs and Benefits, Downsides

#### **Storyline and Worksheets – Tom's Very Bad Day**

#### **Core Question 1: What is the Current State of My Assets?**

- The Role of Expert Judgment – The "Delphi Group"
- Building a "Process Layout" Schematic
- Creating the "Asset Hierarchy"
- Defining the "Data Standard"
- Initial Condition Analysis, Remaining Physical Life
- Valuation/Asset Consumption/Financial Disclosure from a GASB Perspective

#### **Core Question 2: What is My Required "Sustainable" Level of Service (LOS)?**

- What Is "LOS?" Why Do It?
- How It Works (Strategic Level versus Operations Level)
- A "Balanced Scorecard" Approach

### **DAY TWO August 7 (1:00 am – 5:00 pm)**

#### **Summary of Day 1, Outline of Day 2**

#### **Core Question 3: Which Assets Are Critical to Sustained Performance?**

- Understanding How My Assets Can Fail
- What the Likelihood of Failure Is
- What the Consequences Are
- How to Measure Our Agency's "Business Risk Exposure"

#### **Core Question 4: What Are My Best Minimum Life-Cycle-Cost CIP and O&M Strategies?**

- What Alternative "Treatment" (Management) Options Are Feasible?
- Which Is the Best Strategy – "Optimal Renewal Decision Making?"

#### **Discussion, Q & A and Feedback**

### **Day THREE August 8 (8:00 am – 12:00 pm)**

#### **Core Question 4: O&M (Continued)**

- Using AAM to Drive Operations and Maintenance
- Moving Systematically into Reliability Centered and Condition-Based Maintenance

#### **Core Question 4: CIP (Continued)**

- Using AAM to Drive the CIP
- Strategic CIP Validation
- Building Your First Asset Management Plan (AMP) for the System
- Balancing CIP and O&M Requirements
- The Strategic CIP Business Plan

#### **Core Question 5: What IS My Best Long-Term Funding Strategy?**

- So, Valuation Really Does Matter?
- Determining a Sustainable Renewal Funding Level
- Effectively Telling the Funding Story
- The "Whole of Business" Perspective – Using AAM for Rate Setting & Budgeting

#### **Focus Topic 1: Deploying an AAM Program**

- The Three Fundamental Deployment Strategies
- "Gap Analysis" Benchmarking & Developing the AAM Improvement Program
- The Human Side
- The Political Side
- Implementation Work Plans – Lessons Learned

#### **Focus Topic 2: Meeting the IT Challenge – Toward an Enterprise Asset Management Systems (EAMS)**

- Defining "Work Processes"
- Defining "System Functionality"
- Defining Data Needs and Data Flows
- Developing an EAMS Work Plan

#### **Closing Summary, Questions, Comments, Evaluation, Discussion of Basic Audit**

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### **About Our Trainers**

**Mr. Steve Allbee** – USEPA Project Director, Gap Analysis; primary author, USEPA's The Clean Water and Drinking Water Infrastructure Gap Analysis; 30 years EPA – development of financing programs; BA, MSRP, MPA.

**Mr. Duncan Rose** – Vice President & Technical Director – Asset Management Group, GHD LLC; former city/county manager; co-author of WEF's textbook, Managing the Water and Wastewater Utility; 30 years state & local government management; Adjunct Faculty, Florida State University, Askew School of Public Policy; BA, MSP, MAPA.

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**This Special Training Opportunity Is Scheduled In Conjunction with the 2007 Florida Rural Water Association Annual Training and Technical Conference**

**Registration Information:** go to <http://www.frwa.net/> (or) <http://www.epa.gov/owm/assetmanage/index.htm>

